
MEMORANDUM

TO: Lee Sim

FROM: Gertrudys B. Adkins *GA*

DATE: February 2, 1998

SUBJECT: Water Level Report for Pahvant Valley Wells

Enclosed, please find a graphical analysis of selected monitoring wells in the Pahvant valley and a map showing the location of the wells. The period of study is from 1980 to 1997. Data for 1998 are not yet available. High and Low water levels for the year were not available from the USGS. Generally, water level readings are conducted in Spring (March) of each year.

Water level measurements in Pahvant Valley in the spring of 1997 are generally higher than measurements in the spring of 1980. Two areas of exception are in the northern part of Pahvant Valley near McCornick and in a small area East of Kanosh where water levels have not fully recovered from levels in the spring of 1980.

Overall, I do not see any major problem in water level declines and believe that not further action in relation to organizing a distribution system should be taken at this time.

PAHVANT VALLEY WATER LEVEL PATTERN

Water levels in Pahvant Valley indicate high fluctuations over the period of 1980 to 1997. To analyze the water level patterns thirteen observation wells were selected across the valley. Overall, the water table has slightly increased in the majority of the observed wells (Eight wells out of 13 showed an increase in water levels from the spring of 1980 to the spring of 1997). Water levels in all observation wells rose rapidly from 1983 to 1988 in response to large amounts of recharge from higher than normal levels of precipitation.

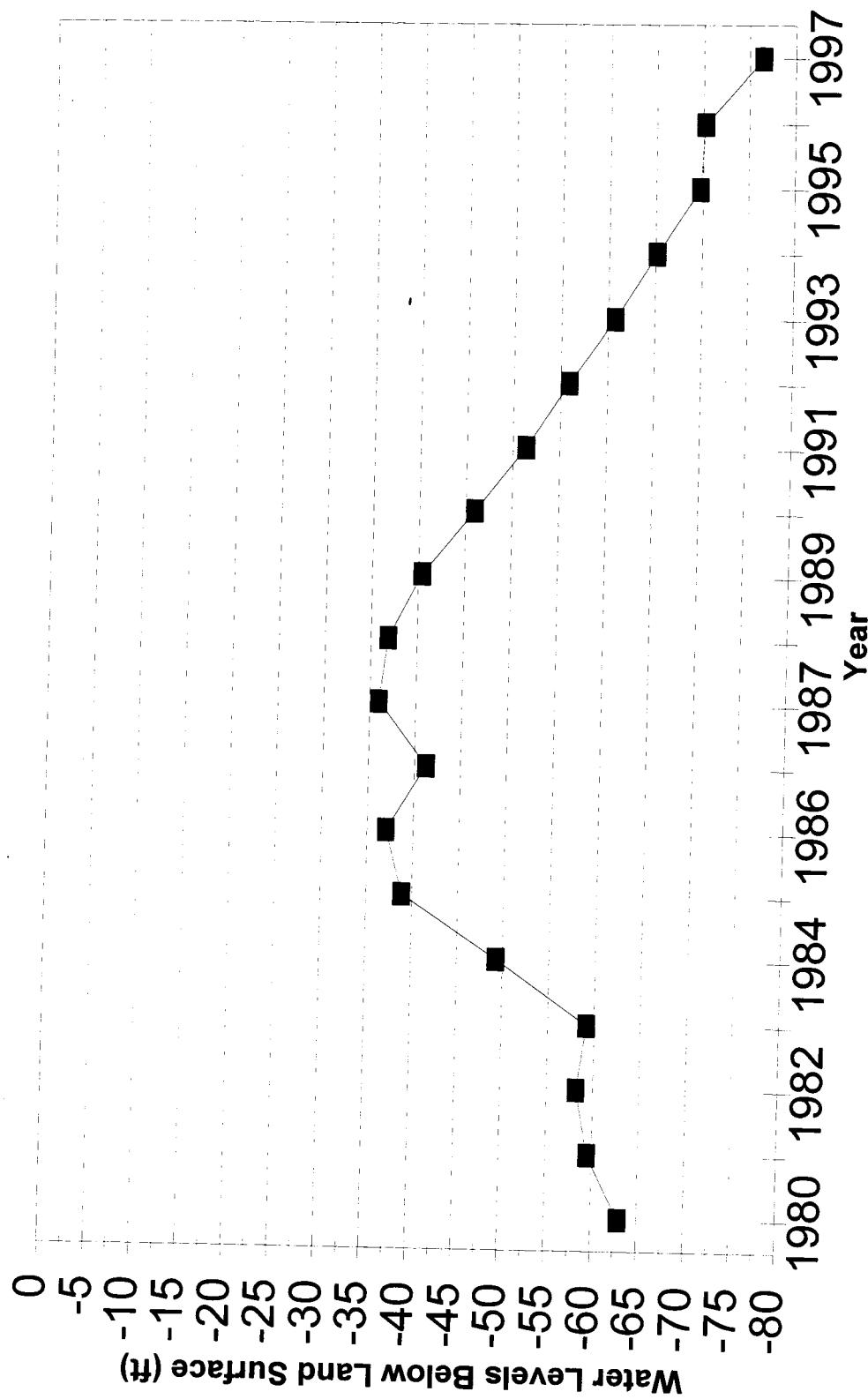
Water levels in wells (C-23-6)16cda-1 and (C-23-6)20bda-1 registered the highest increase in water levels of about 20 ft and 18 ft, respectively. These wells are located about 5 to 6 miles East of Kanosh.

Water levels in well (C-18-5)28dda-1 near McCornick in the northern boundary of the valley show steady decline in water table from 1987 to 1997, with levels reaching a decline of more than 13 feet from the levels registered in 1980. Well (C-19-4)30dab-1 located about 4 miles North-East of Holden shows a similar pattern with a fairly constant decline in water levels from 1987 to 1997. The total decline in the period of 1980 to 1997 in this well was registered as 15 ft.

Water levels in wells near Fillmore and Meadow show the largest seasonal fluctuations throughout the study period. However, water levels in 1997 remain at about the same levels as registered in 1980.

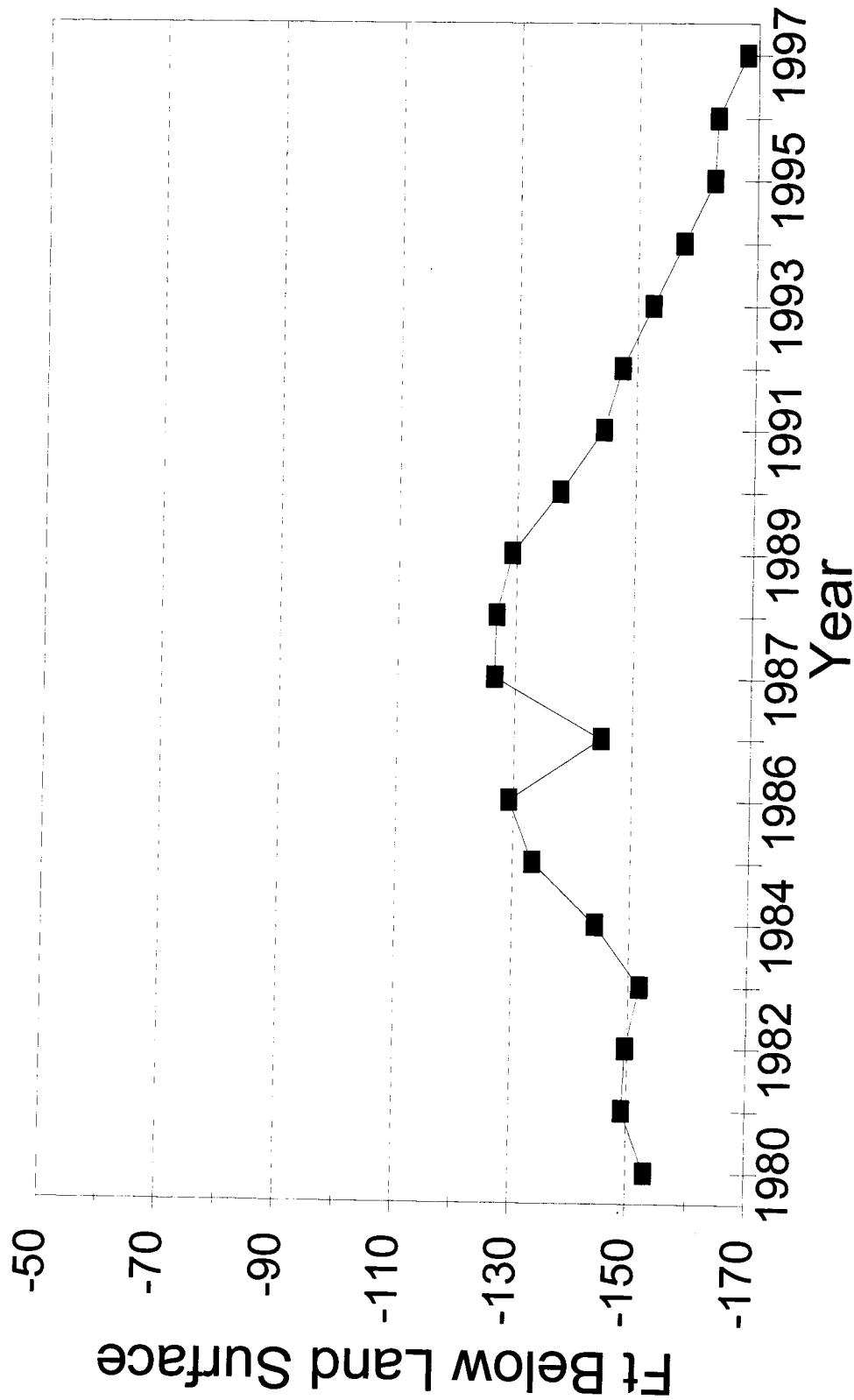
Pahvant Valley Ground Water Levels

Well (C-18-5)28ddaa1 - #4



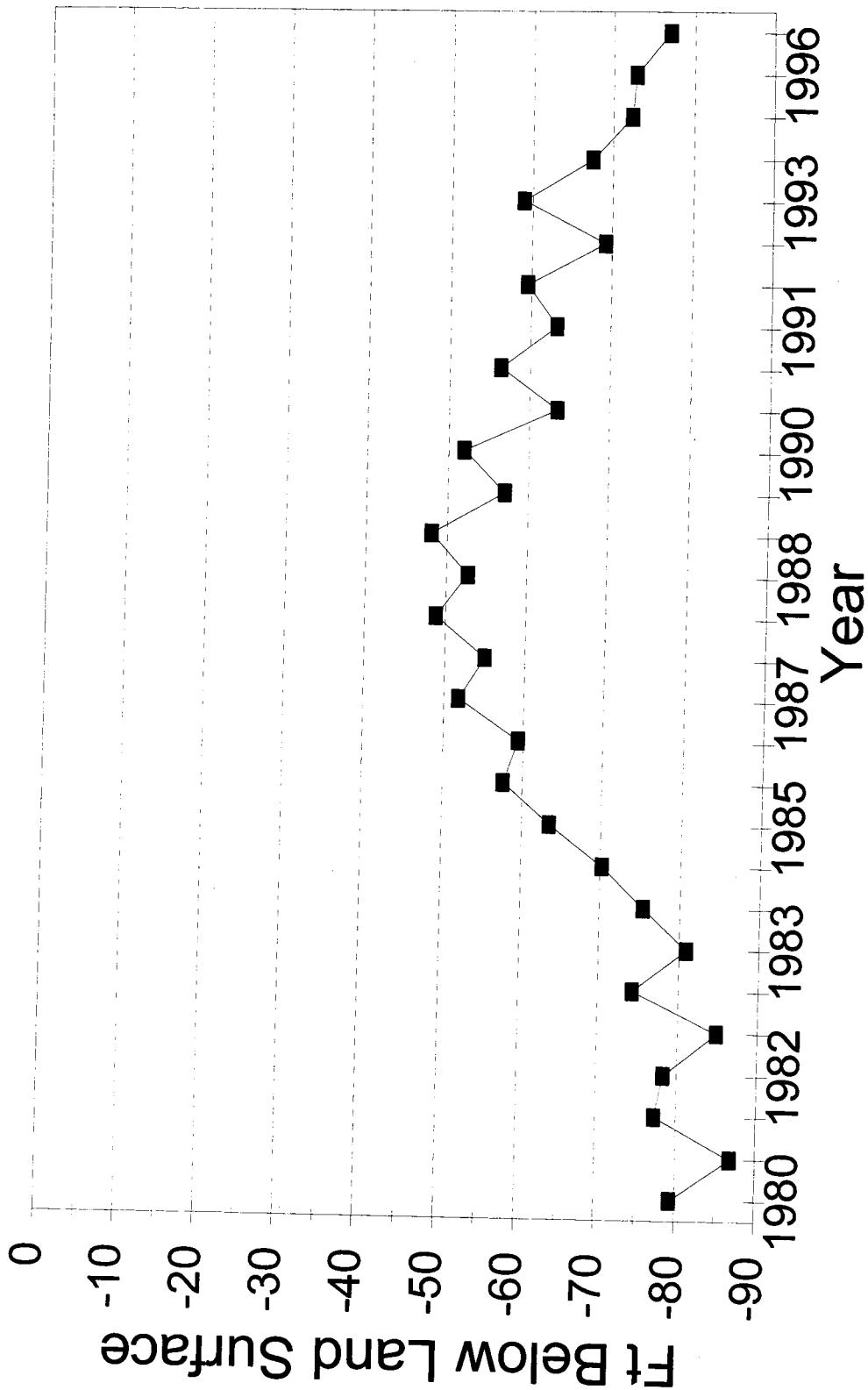
Pahvant Valley Ground Water Levels

Well (C-19-4)30dab-1 #10



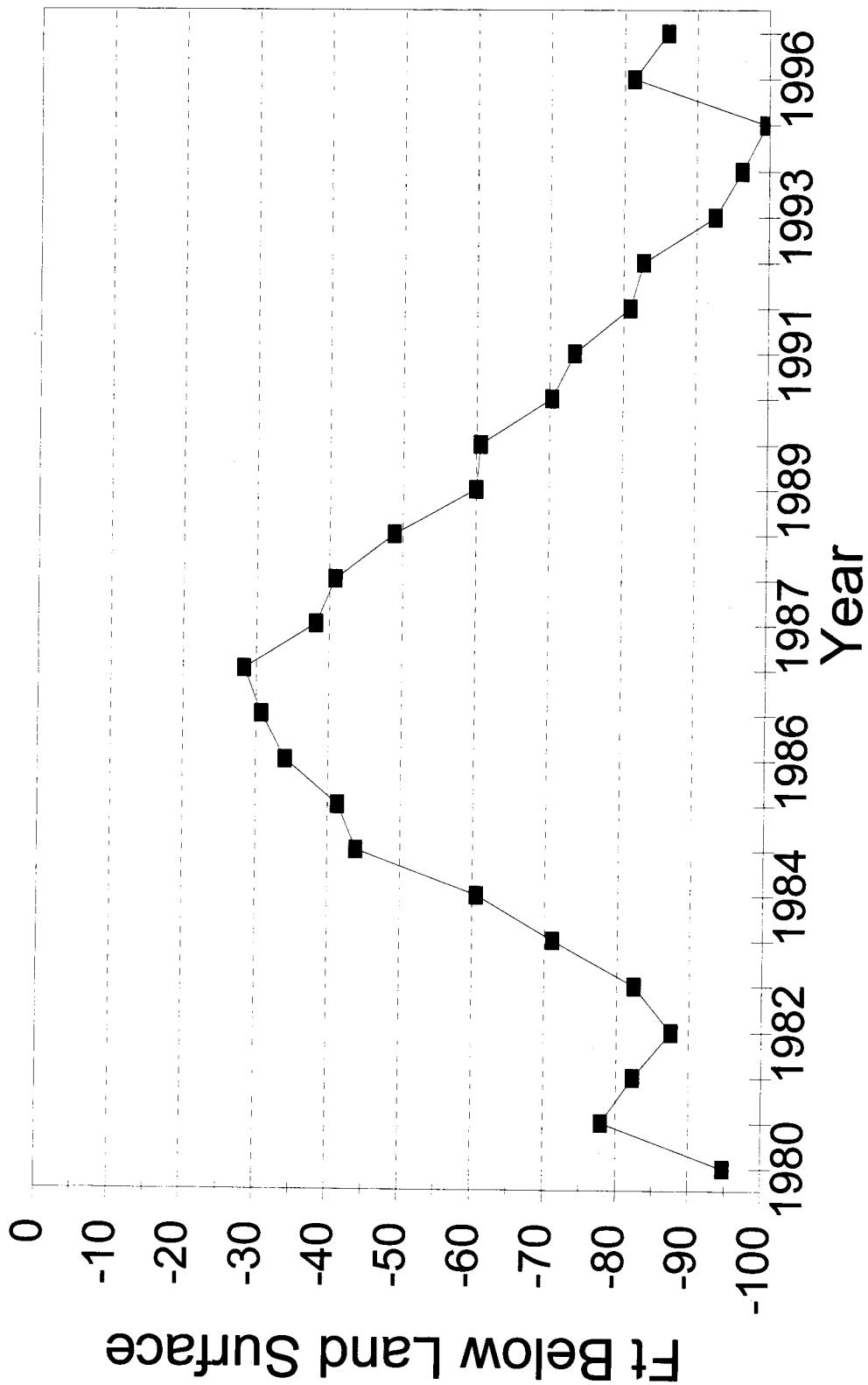
Pahvant Valley Ground Water Levels

Well (C-19-5)2aad-1 - #14



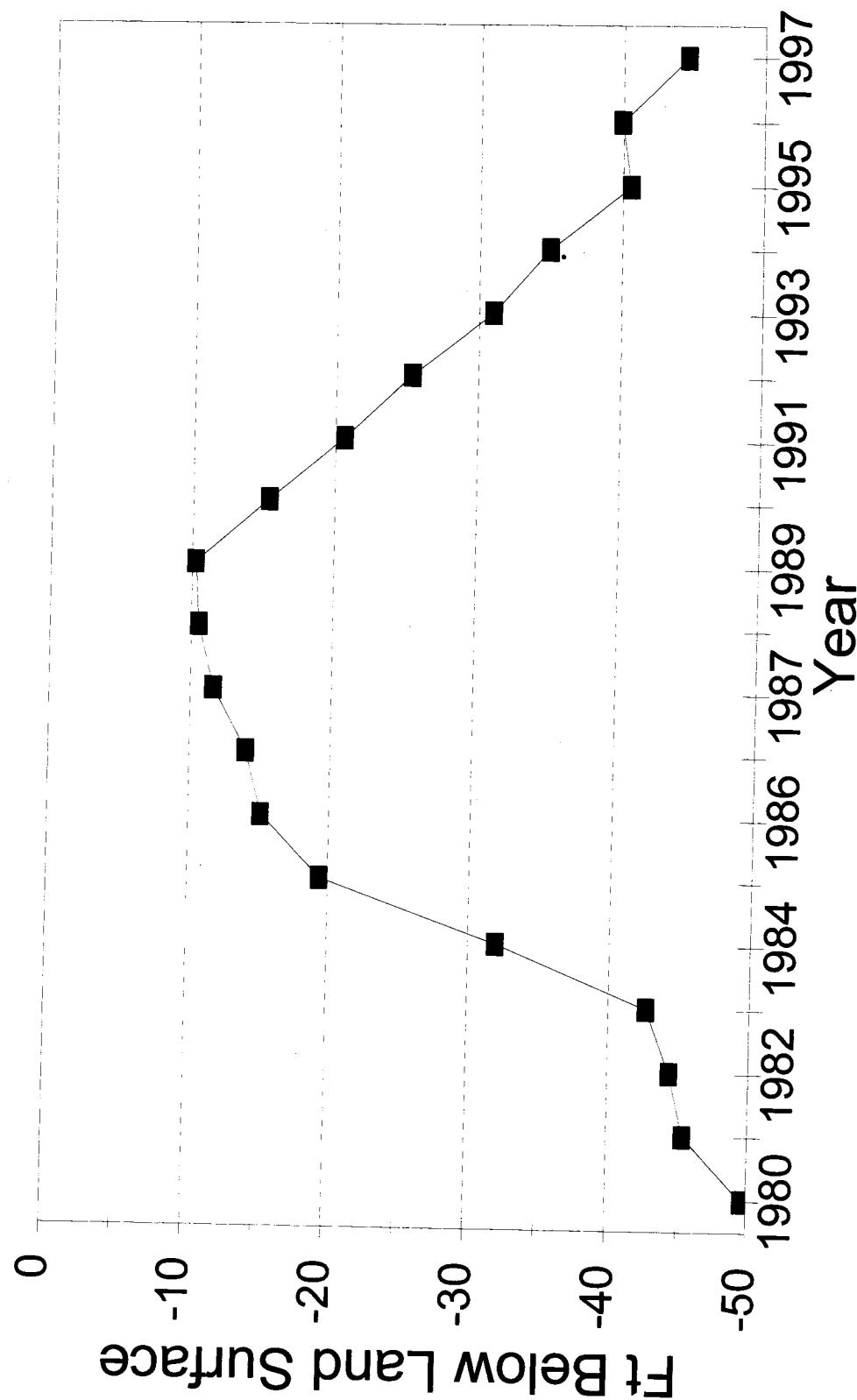
Pahvant Valley Ground Water Levels

Well (C-20-4)4dab-1 #18



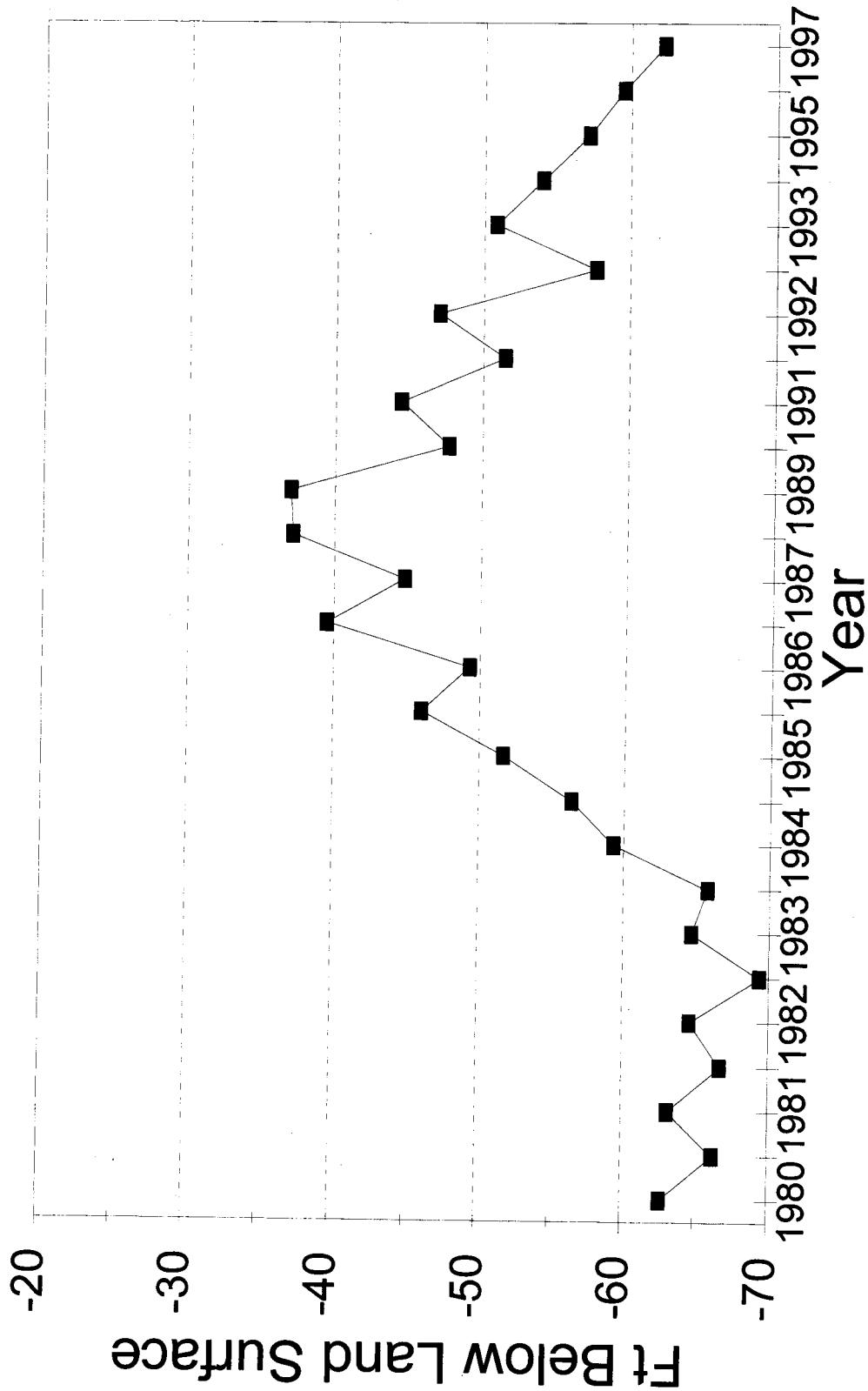
Pahvant Valley Ground Water Levels

Well (C-20-4)6dbc-1 #20



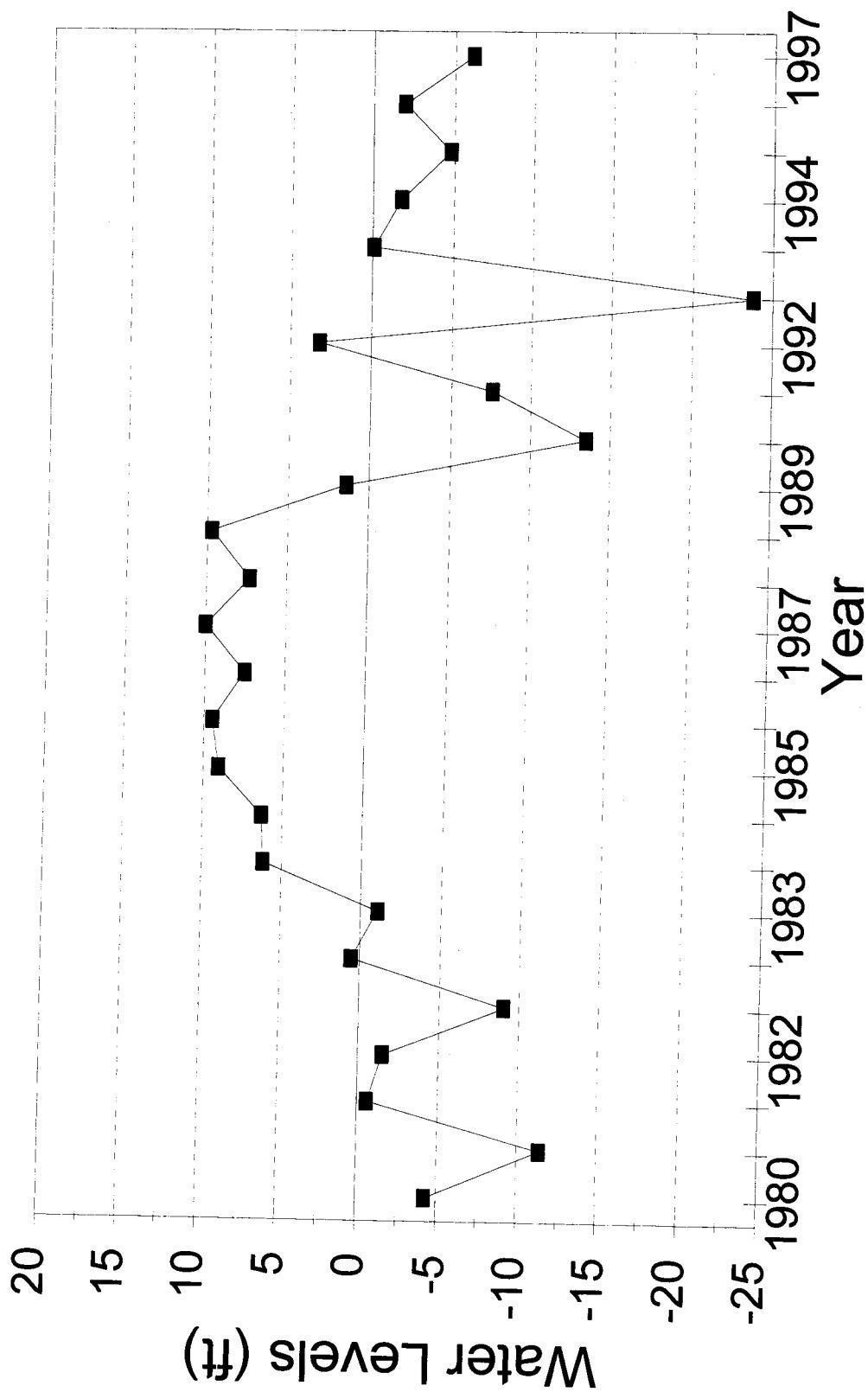
Pahvant Valley Ground Water Levels

Well (C-20-5)24bad-2 #26



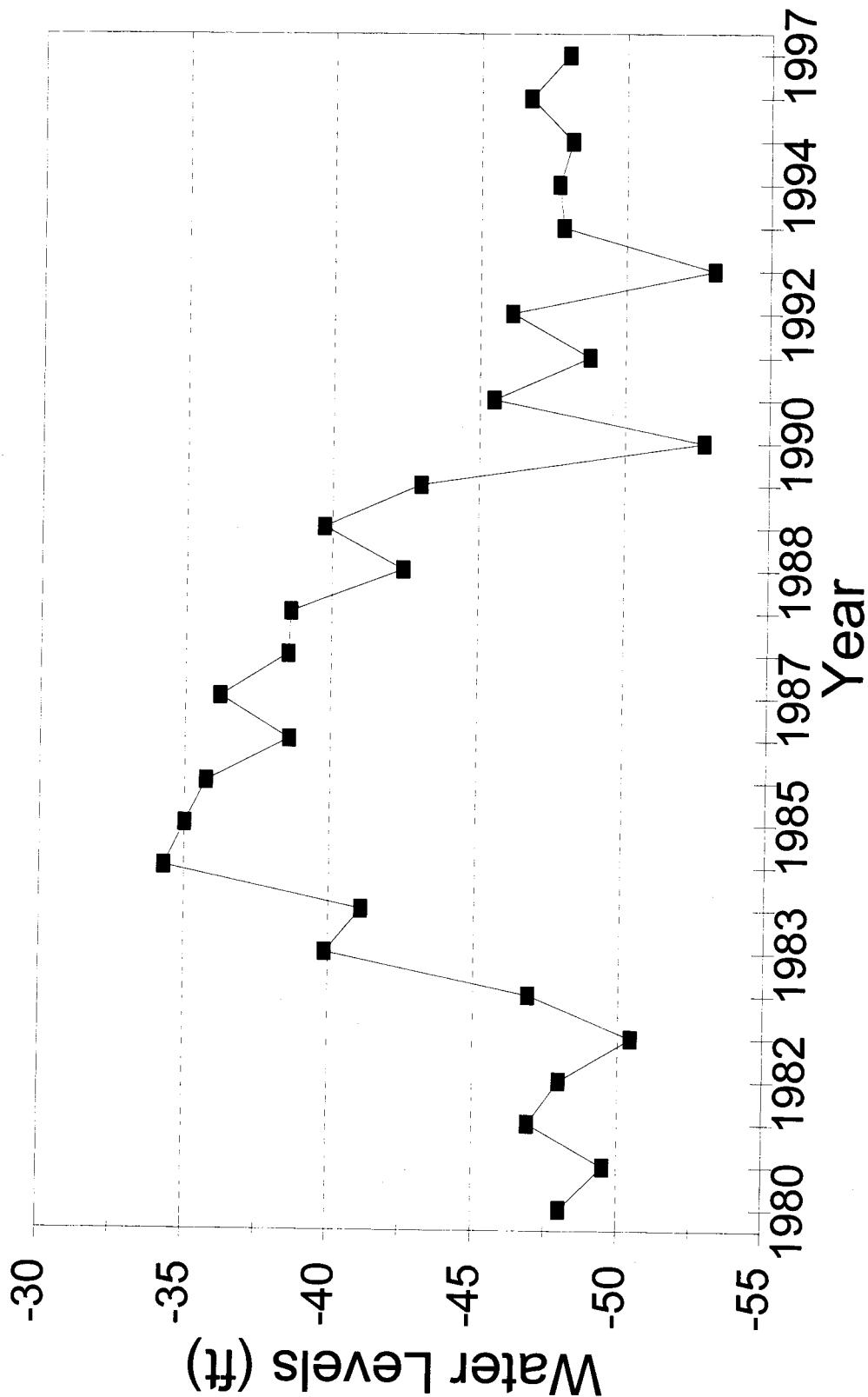
Pahvant Valley Ground Water Levels

Well (C-20-5)28cdd-1 #31



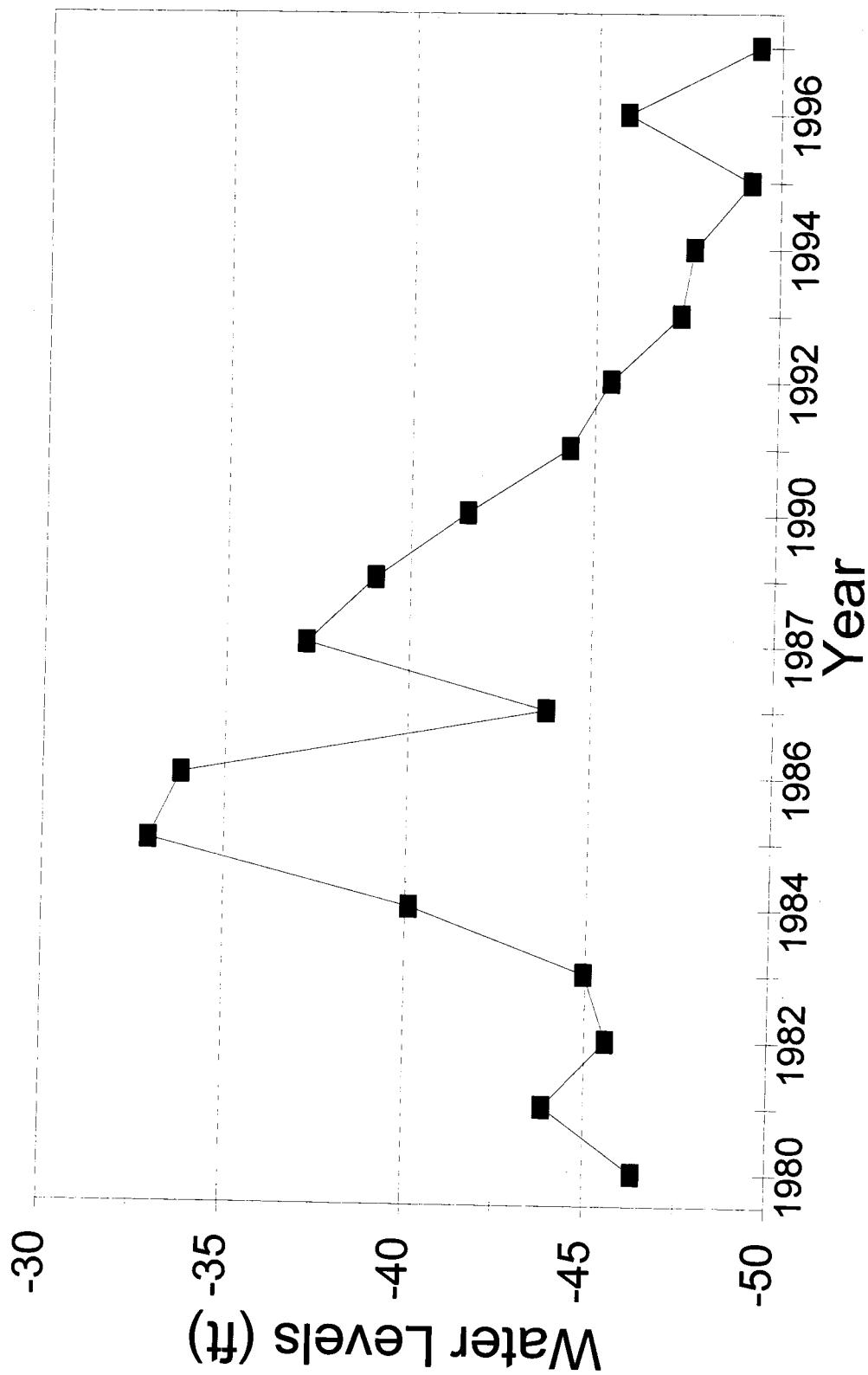
Pahvant Valley Ground Water Levels

Well (C-21-5)7cdd-3 #37



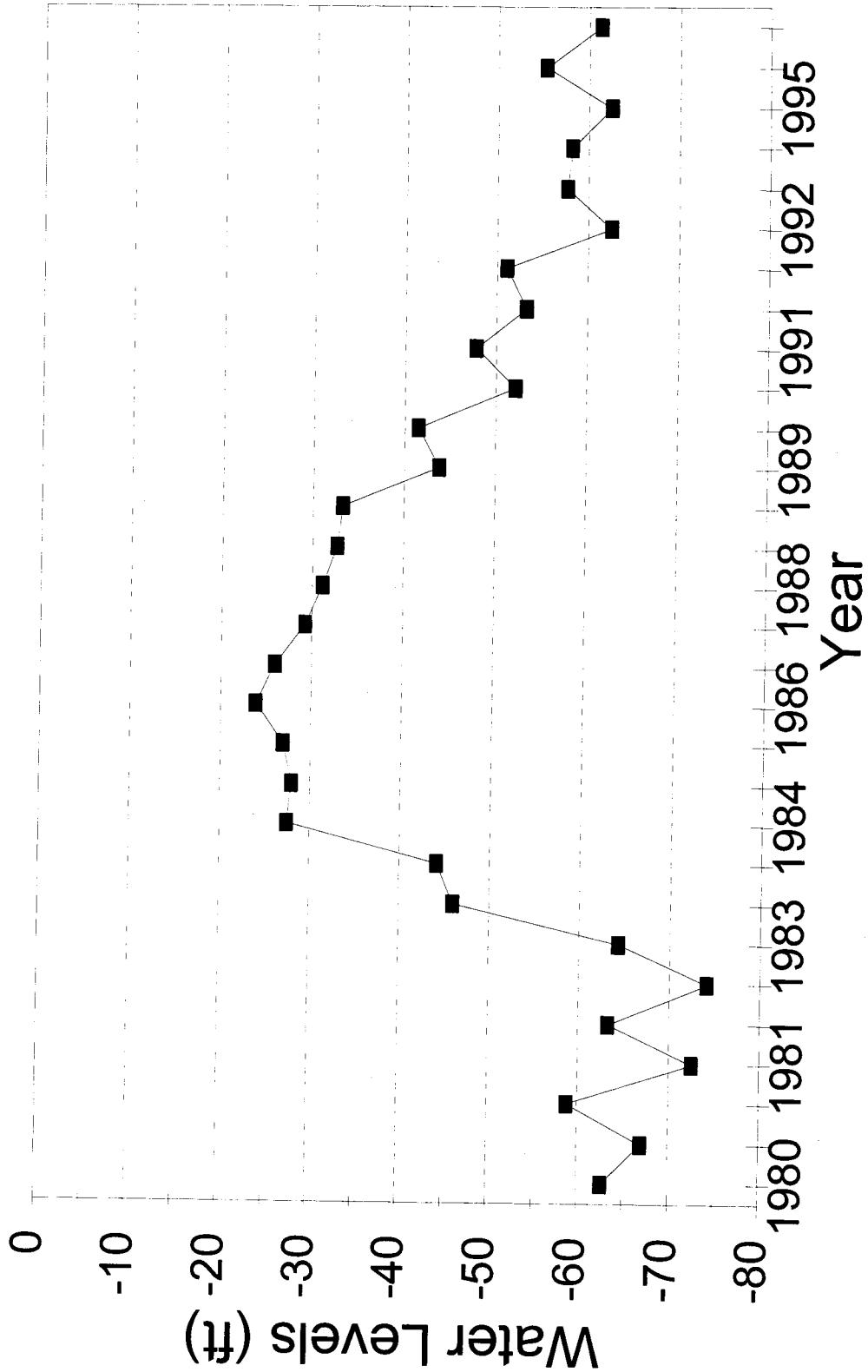
Pahvant Valley Ground Water Levels

Well (C-21-5)8dbb-2 #40



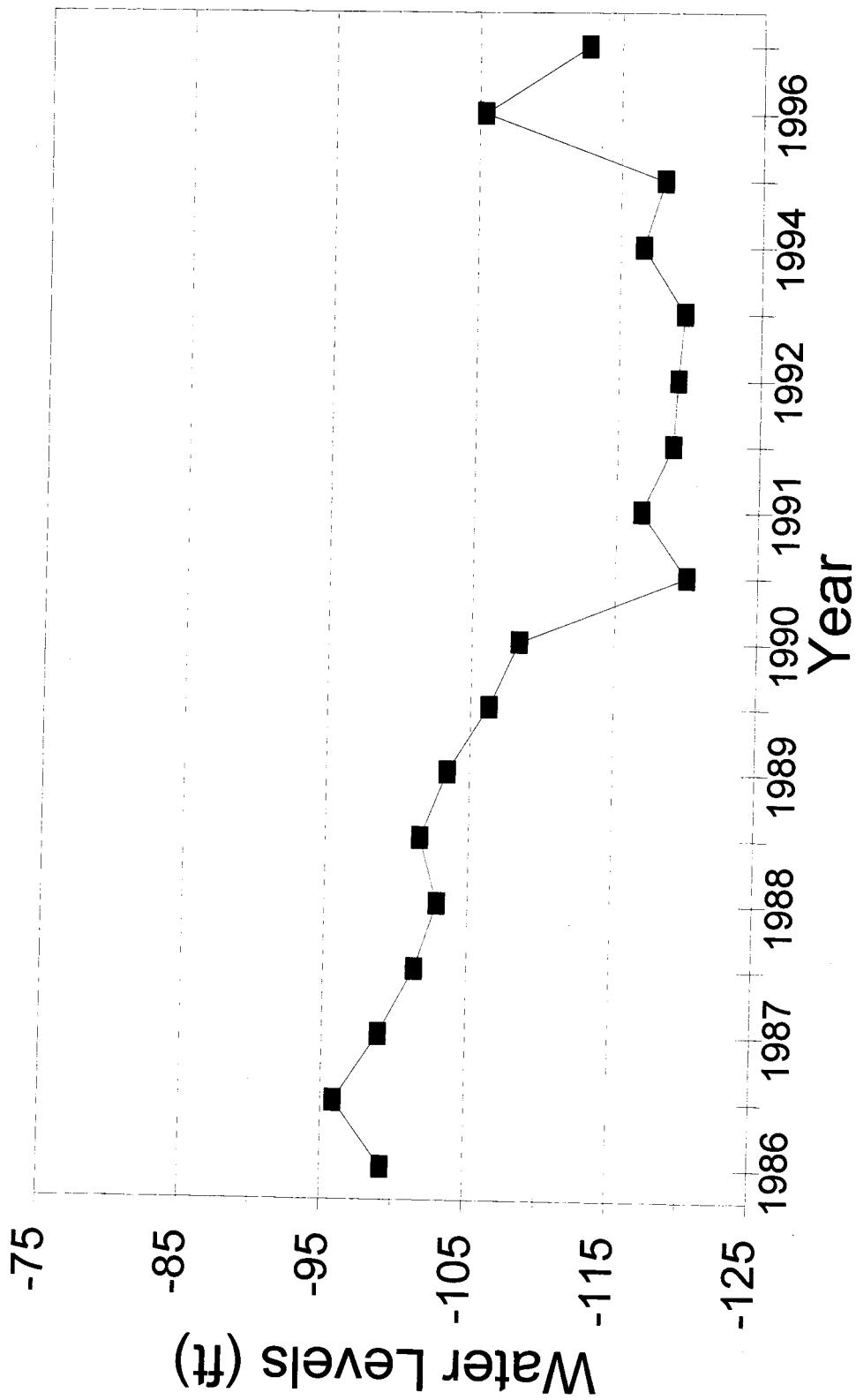
Pahvant Valley Ground Water Levels

Well (C-22-5)28dbd-1 #58



Pahvant Valley Ground Water Levels

Well (C-23-6)13ddd-1 #78



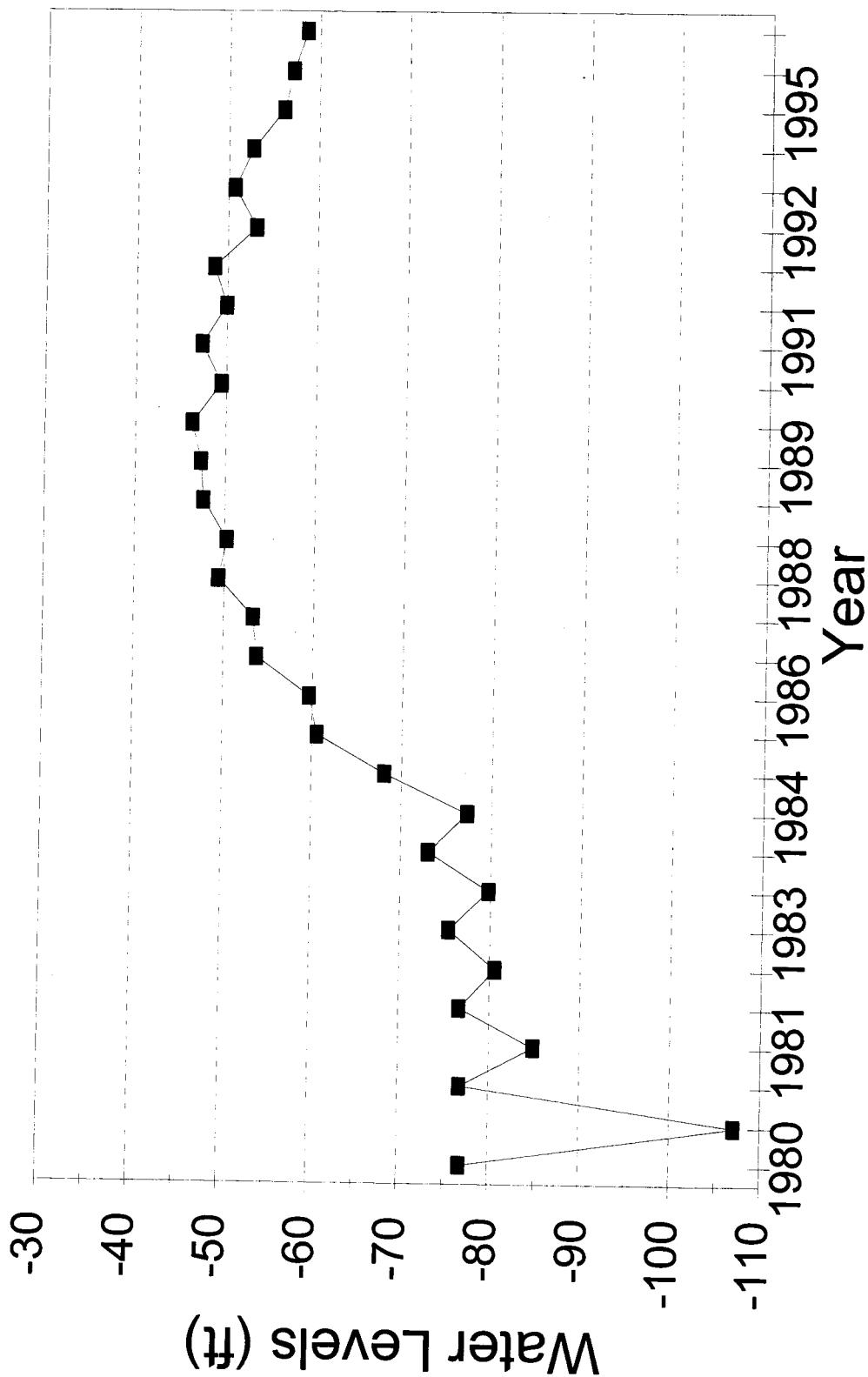
Pahvant Valley Ground Water Levels

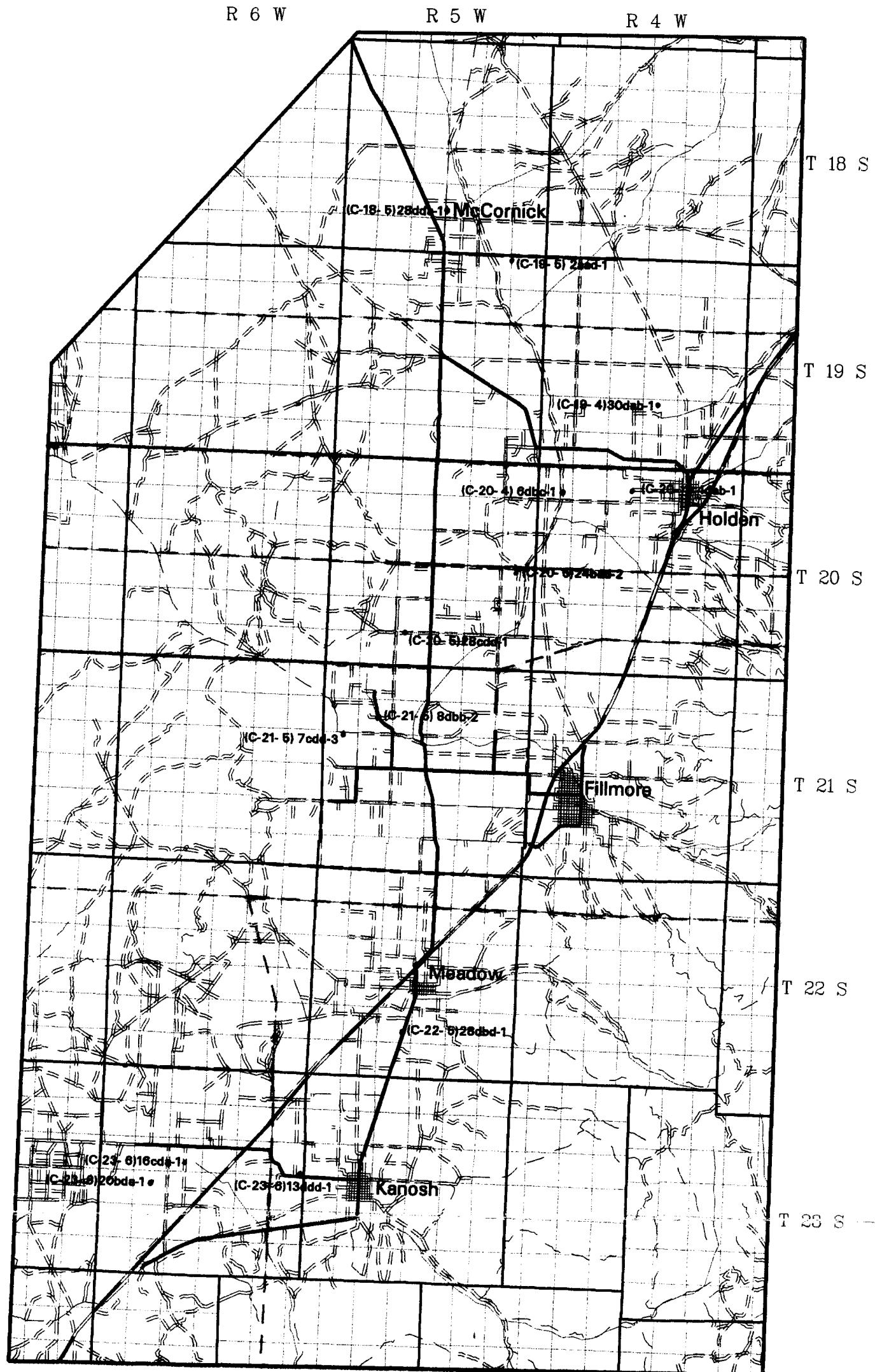
Well (C-23-6)16cda-1 #81



Pahvant Valley Ground Water Levels

Well (C-23-6)20bda-1 #87





**Location of USGS Monitoring Wells
Pahvant Valley, Utah
01-21-98**